

ENTERED

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,094

DATE: 06/20/2002

TIME: 13:42:47

Input Set : A:\Nephr-us.app

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3 <110> APPLICANT: Holthofer, Harry
 5 <120> TITLE OF INVENTION: The Use of Soluble Protein Molecules Expressed by the
 6 Pancreas and Kidney Glomerules
 8 <130> FILE REFERENCE: 9B17PC-US
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/018,094
 11 <141> CURRENT FILING DATE: 2000-06-15
 13 <150> PRIOR APPLICATION NUMBER: PCT/FI00/00540
 14 <151> PRIOR FILING DATE: 2000-06-15
 16 <150> PRIOR APPLICATION NUMBER: FI991369
 17 <151> PRIOR FILING DATE: 1999-06-15
 19 <160> NUMBER OF SEQ ID NOS: 7
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 3705
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Rattus sp.
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Molecule type: cDNA from mRNA
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 32 <223> OTHER INFORMATION: Tissue type: Pancreatic islets, kidney glomerulus
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99 <210> SEQ ID NO: 2

100 <211> LENGTH: 1241

101 <212> TYPE: PRT

102 <213> ORGANISM: Homo sapiens

104 <220> FEATURE:

105 <221> NAME/KEY: DOMAIN

106 <222> LOCATION: (1056)..(1093)

107 <223> OTHER INFORMATION: Transmembraneous domain

109 <400> SEQUENCE: 2

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116 Gly Phe Trp Ala Leu Pro Glu Asn Leu Thr Val Val Glu Gly Ala Ser
117 35 40 45
119 Val Glu Leu Arg Cys Gly Val Ser Thr Pro Gly Ser Ala Val Gln Trp
120 50 55 60
122 Ala Lys Asp Gly Leu Leu Leu Gly Pro Asp Pro Arg Ile Pro Gly Phe
123 65 70 75 80
125 Pro Arg Tyr Arg Leu Glu Gly Asp Pro Ala Arg Gly Glu Phe His Leu
126 85 90 95
128 Leu Ile Glu Ala Cys Asp Leu Ser Asp Asp Ala Glu Tyr Glu Cys Gln
129 100 105 110
131 Val Gly Arg Ser Glu Met Gly Pro Glu Leu Val Ser Pro Arg Val Ile
132 115 120 125
134 Leu Ser Ile Leu Val Pro Pro Lys Leu Leu Leu Leu Thr Pro Glu Ala
135 130 135 140
137 Gly Thr Met Val Thr Trp Val Ala Gly Gln Glu Tyr Val Val Asn Cys
138 145 150 155 160
140 Val Ser Gly Asp Ala Lys Pro Ala Pro Asp Ile Thr Ile Leu Leu Ser
141 165 170 175
143 Gly Gln Thr Ile Ser Asp Ile Ser Ala Asn Val Asn Glu Gly Ser Gln
144 180 185 190
146 Gln Lys Leu Phe Thr Val Glu Ala Thr Ala Arg Val Thr Pro Arg Ser
147 195 200 205
149 Ser Asp Asn Arg Gln Leu Leu Val Cys Glu Ala Ser Ser Pro Ala Leu
150 210 215 220
152 Glu Ala Pro Ile Lys Ala Ser Phe Thr Val Asn Val Leu Phe Pro Pro
153 225 230 235 240
155 Gly Pro Pro Val Ile Glu Trp Pro Gly Leu Asp Glu Gly His Val Arg
156 245 250 255
158 Ala Gly Gln Ser Leu Glu Leu Pro Cys Val Ala Arg Gly Gly Asn Pro
159 260 265 270
161 Ile Ala Thr Leu Gln Trp Leu Lys Asn Gly Gln Pro Val Ser Thr Ala
162 275 280 285
164 Trp Gly Thr Glu His Thr Gln Ala Val Ala Arg Ser Val Leu Val Met
165 290 295 300
167 Thr Val Arg Pro Glu Asp His Gly Ala Gln Leu Ser Cys Glu Ala His
168 305 310 315 320
170 Asn Ser Val Ser Ala Gly Thr Gln Glu His Gly Ile Thr Leu Gln Val
171 325 330 335
173 Thr Phe Pro Pro Ser Ala Ile Ile Ile Leu Gly Ser Ala Ser Gln Thr
174 340 345 350
176 Glu Asn Lys Asn Val Thr Leu Ser Cys Val Ser Lys Ser Ser Arg Pro
177 355 360 365
179 Arg Val Leu Leu Arg Trp Trp Leu Gly Trp Arg Gln Leu Leu Pro Met
180 370 375 380
182 Glu Glu Thr Val Met Asp Gly Leu His Gly Gly His Ile Ser Met Ser

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186          405          410          415
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189          420          425          430
191 Leu Ile Leu Asn Val Lys Tyr Pro Ala Gln Lys Leu Trp Ile Glu Gly
192          435          440          445
194 Pro Pro Glu Gly Gln Lys Leu Arg Ala Gly Thr Arg Val Arg Leu Val
195          450          455          460
197 Cys Leu Ala Ile Gly Gly Asn Pro Glu Pro Ser Leu Met Trp Tyr Lys
198 465          470          475          480
200 Asp Ser Arg Thr Val Thr Glu Ser Arg Leu Pro Gln Glu Ser Arg Arg
201          485          490          495
203 Val His Leu Gly Ser Val Glu Lys Ser Gly Ser Thr Phe Ser Arg Glu
204          500          505          510
206 Leu Val Leu Val Thr Gly Pro Ser Asp Asn Gln Ala Lys Phe Thr Cys
207          515          520          525
209 Lys Ala Gly Gln Leu Ser Ala Ser Thr Gln Leu Ala Val Gln Phe Pro
210          530          535          540
212 Pro Thr Asn Val Thr Ile Leu Ala Asn Ala Ser Ala Leu Arg Pro Gly
213 545          550          555          560
215 Asp Ala Leu Asn Leu Thr Cys Val Ser Val Ser Ser Asn Pro Pro Val
216          565          570          575
218 Asn Leu Ser Trp Asp Lys Glu Gly Glu Arg Leu Glu Gly Val Ala Ala
219          580          585          590
221 Pro Pro Arg Arg Ala Pro Phe Lys Gly Ser Ala Ala Ala Arg Ser Val
222          595          600          605
224 Leu Leu Gln Val Ser Ser Arg Asp His Gly Gln Arg Val Thr Cys Arg
225          610          615          620
227 Ala His Ser Ala Glu Leu Arg Glu Thr Val Ser Ser Phe Tyr Arg Leu
228 625          630          635          640
230 Asn Val Leu Tyr Arg Pro Glu Phe Leu Gly Glu Gln Val Leu Val Val
231          645          650          655
233 Thr Ala Val Glu Gln Gly Glu Ala Leu Leu Pro Val Ser Val Ser Ala
234          660          665          670
236 Asn Pro Ala Pro Glu Ala Phe Asn Trp Thr Phe Arg Gly Tyr Arg Leu
237          675          680          685
239 Ser Pro Ala Gly Gly Pro Arg His Arg Ile Leu Ser Ser Gly Ala Leu
240          690          695          700
242 His Leu Trp Asn Val Thr Arg Ala Asp Asp Gly Leu Tyr Gln Leu His
243 705          710          715          720
245 Cys Gln Asn Ser Glu Gly Thr Ala Glu Ala Arg Leu Arg Leu Asp Val
246          725          730          735
248 His Tyr Ala Pro Thr Ile Arg Ala Leu Gln Asp Pro Thr Glu Val Asn
249          740          745          750
251 Val Gly Gly Ser Val Asp Ile Val Cys Thr Val Asp Ala Asn Pro Ile
252          755          760          765
254 Leu Pro Gly Met Phe Asn Trp Glu Arg Leu Gly Glu Asp Glu Glu Asp
255          770          775          780

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260 Leu Arg Ile His His Ala Lys Leu Ala Gln Ala Gly Ala Tyr Gln Cys
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263 Ile Val Asp Asn Gly Val Ala Pro Pro Ala Arg Arg Leu Leu Arg Leu
264 820 825 830
266 Val Val Arg Phe Ala Pro Gln Val Glu His Pro Thr Pro Leu Thr Lys
267 835 840 845
269 Val Ala Ala Ala Gly Asp Ser Thr Ser Ser Ala Thr Leu His Cys Arg
270 850 855 860
272 Ala Arg Gly Val Pro Asn Ile Val Phe Thr Trp Thr Lys Asn Gly Val
273 865 870 875 880
275 Pro Leu Asp Leu Gln Asp Pro Arg Tyr Thr Glu His Thr Tyr His Gln
276 885 890 895
278 Gly Gly Val His Ser Ser Leu Leu Thr Ile Ala Asn Val Ser Ala Ala
279 900 905 910
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282 915 920 925
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285 930 935 940
287 Ser Gly Leu Lys Val Val Ser Leu Thr Pro His Ser Val Gly Leu Glu
288 945 950 955 960
290 Trp Lys Pro Gly Phe Asp Gly Gly Leu Pro Gln Arg Phe Cys Ile Arg
291 965 970 975
293 Tyr Glu Ala Leu Gly Thr Pro Gly Phe His Tyr Val Asp Val Val Pro
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296 Pro Gln Ala Thr Thr Phe Thr Leu Thr Gly Leu Gln Pro Ser Thr Arg
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309 1060 1065 1070
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315 1090 1095 1100
317 Ser Glu Glu Asp Arg Val Arg Asn Glu Tyr Glu Glu Ser Gln Trp Thr
318 1105 1110 1115 1120
320 Gly Glu Arg Asp Thr Gln Ser Ser Thr Val Ser Thr Thr Glu Ala Glu
321 1125 1130 1135
323 Pro Tyr Tyr Arg Ser Leu Arg Asp Phe Ser Pro Gln Leu Pro Pro Thr
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,094

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